

What is claimed is:

1. An image processing apparatus comprising:

moving picture encoding means for encoding still picture image data with a specified moving picture encoding scheme;

- 5 data processing means for adding time extension information to extend reproduction time by the time same as that of voice data related to said still picture image data to output of said moving picture encoding means in a format corresponding to said moving picture encoding scheme; and

- 10 multiplexing means for multiplexing and outputting the output of said data processing means and said voice data.

2. The image processing apparatus according to claim 1 further comprising:

- 15 voice encoding means for encoding said voice data with a specified voice encoding scheme.

3. The image processing apparatus according to claim 1, wherein said data processing means receives information on reproduction time of said voice data acquired by said voice encoding means and acquires said time extension information.

- 20 4. The image processing apparatus according to claim 1, wherein said data processing means extracts data for one frame corresponding to said still picture image data from output of said moving picture encoding means, and has first means for adding

invalid frames following the data for a time corresponding to reproduction time of said voice data at a specified period as said time extension information.

5. The image processing apparatus according to claim 1, wherein
5 said data processing means extracts data for one frame corresponding to said still picture image data from output of said moving picture encoding means, and has second means for adding invalid frames after a time corresponding to reproduction time of said voice data as said time extension information.

10 6. The image processing apparatus according to claim 1, wherein
 said data processing means extracts data for one frame corresponding to said still picture image data from output of said moving picture encoding means, and has third means for adding said time extension information to the extracted data.

15 7. The image processing apparatus according to claim 1, wherein
 said data processing means comprises:
 extraction means for extracting data for one frame corresponding to said still picture image data from output of said moving picture encoding means;

20 first means for adding invalid frames following the data for a time corresponding to reproduction time of said voice data at a specified period as said time extension information;

second means for adding invalid frames after a time corresponding to reproduction time of said voice data as said time extension information;

third means for adding said time extension information to
5 the extracted data; and

selection means for selecting either of the first to third means.

8. The image processing apparatus according to claim 4, wherein
said data processing means further comprises means for
10 continuing control for processing of said first, second or third
means a specified times after completing processing of said first,
second or third means.

9. The image processing apparatus according to claim 1, further
comprising:

15 a camera to generate said still picture image data; and
a microphone to generate said voice data.

10. The image processing apparatus according to claim 9, wherein
said image processing apparatus is a cellular phone.

11. The image processing apparatus according to claim 1, further
20 comprising:

means for extracting desired still picture image data and
voice data related to it from moving picture data added with
voice data, wherein

the extracted still picture image data is supplied to said data processing means.

12. An image processing method comprising:

a moving picture encoding step for encoding still picture
5 image data with a specified moving picture encoding scheme;

a data processing step for adding time extension information
to extend reproduction time by the time same as that of voice
data related to said still picture image data to output of said
moving picture encoding means in a format corresponding to said
10 moving picture encoding scheme; and

a multiplexing step for multiplexing and outputting the
output after data processing and said voice data.

13. The image processing method according to claim 12 further
comprising:

15 a voice encoding step for encoding said voice data with
a specified voice encoding scheme.

14. The image processing method according to claim 12, wherein
said data processing step receives information on
reproduction time of said voice data acquired by said voice
20 encoding step and acquires said time extension information.

15. The image processing method according to claim 12, wherein
said data processing step extracts data for one frame
corresponding to said still picture image data from output of

said moving picture encoding step, and has a first step for adding invalid frames following the data for a time corresponding to reproduction time of said voice data at a specified period as said time extension information.

5 16. The image processing method according to claim 12, wherein
said data processing step extracts data for one frame
corresponding to said still picture image data from output of
said moving picture encoding step, and has a second step for
adding invalid frames after a time corresponding to reproduction
10 time of said voice data as said time extension information.

17. The image processing method according to claim 12, wherein
said data processing step extracts data for one frame
corresponding to said still picture image data from output of
said moving picture encoding step, and has a third step for adding
15 said time extension information to the extracted data.

18. The image processing method according to claim 12, wherein
said data processing step comprises:
an extraction step for extracting data for one frame
corresponding to said still picture image data from output of
20 said moving picture encoding step;

a first step for adding invalid frames following the data
for a time corresponding to reproduction time of said voice data
at a specified period as said time extension information;

a second step for adding invalid frames after a time corresponding to reproduction time of said voice data as said time extension information;

a third step for adding said time extension information
5 to the extracted data; and

a selection step for selecting either of the first to third steps.

19. The image processing method according to claim 15, wherein
said data processing step further comprises a step for
10 continuing control for processing of said first, second or third
step a specified times after completing processing of said first,
second or third step.

20. The image processing method according to claim 12, further comprising:

15 a step for generating said still picture image data through
a camera; and

a step for generating said voice data through a microphone.

21. The image processing method according to claim 20, wherein
a cellular phone is used.

20 22. The image processing method according to claim 12, further comprising:

a step for extracting desired still picture image data and voice data related to it from moving picture data added with voice data, wherein

the extracted still picture image data is supplied to said
5 data processing step.

23. An image processing system comprising:

an image processing apparatus including:

moving picture encoding means for encoding still picture image data with a specified moving picture encoding scheme;

10 data processing means for adding time extension information to extend reproduction time by the time same as that of voice data related to the still picture image data to output of the moving picture encoding means in a format corresponding to the moving picture encoding scheme; and

15 multiplexing means for multiplexing and outputting the output of the data processing means and the voice data, and a reproduction apparatus including:

moving picture decoding means for receiving multiplexed output from the image processing apparatus and decoding the data
20 processed by the data processing means using a decoding method corresponding to the moving picture encoding scheme; and

means for simultaneously reproducing the voice data of the multiplexed output and the moving picture decoding means.

24. A reproduction apparatus, which receives and reproduces multiplexed output from an image processing apparatus that includes:

moving picture encoding means for encoding still picture
5 image data with a specified moving picture encoding scheme;

data processing means for adding time extension information
to extend reproduction time by the time same as that of voice
data related to the still picture image data to output of the
moving picture encoding means in a format corresponding to the
10 moving picture encoding scheme; and

multiplexing means for multiplexing and outputting the
output of the data processing means and the voice data,

comprising:

moving picture decoding means for decoding the data
15 processed by the data processing means using a decoding method
corresponding to the moving picture encoding scheme; and

means for simultaneously reproducing the voice data of the
multiplexed output and the moving picture decoding means.

25. Programs, which are computer-readable and allow a computer
20 to execute image processing operations of an image processing
apparatus, comprising:

a moving picture encoding step for encoding still picture
image data with a specified moving picture encoding scheme;

a data processing step for adding time extension information
25 to extend reproduction time by the time same as that of voice
data related to said still picture image data to output of said

moving picture encoding means in a format corresponding to said moving picture encoding scheme; and

a multiplexing step for multiplexing and outputting the output after data processing and said voice data.